AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) An apparatus for coherent combining type demodulation in a communication system using orthogonal modulation, the apparatus comprising:

means for generating a phase reference signal from signals received via multipaths;

means for detecting phase error values of the signals received via the multi-paths using the phase reference signal, respectively; and

means for compensating the received signals via the multi-paths by applying the detected phase error values thereto, respectively,

wherein the means for generating the phase reference signal comprises:

means for calculating correlation values of orthogonal codes of the received signals via the multi-paths, respectively, and for calculating symbol energy values of the correlation values; and

means for adding the symbol energy values of the correlation values per each orthogonal code for the entire multi-paths to determine the orthogonal code having a maximum energy value as the phase reference signal.

- 2. (Original) The apparatus of claim 1, further comprising means for delaying the received signals while the phase error values detecting means detects the phase error values.
 - 3. (Canceled)
- 4. (Previously Presented) The apparatus of claim 1, wherein the phase error values detecting means comprises:

means for selecting a value corresponding to the phase reference signal among the orthogonal code correlation values of the received signals via the multi-paths; and means for performing phase estimation filtering on the selected value.

- 5. (Previously Presented) The apparatus of claim 4, wherein the phase estimation filtering means comprises an accumulator.
- 6. (Previously Presented) The apparatus of claim 1, wherein the means for compensating the received signals compensates the phase errors by conjugate-complex-multiplying the received signals by the detected phase error values.

- 7. (Previously Presented) The apparatus of claim 1, further comprising:

 an adder adding in-phase components of the correlation values outputted from
 the means for compensating the received signals; and
 - means for determining a symbol value of each value outputted from the adder.
- 8. (Previously Presented) The apparatus of claim 1, wherein each orthogonal code is a Walsh code.
- 9. (Previously Presented) A receiver in a communication system using orthogonal modulation, comprising:

a plurality of fingers; and

an index detector for detecting a Walsh index indicating a maximum Walsh code based on energy values of Walsh code correlation values of signals received via multi-paths,

wherein each of the energy values are provided by each of the plurality of fingers, and the plurality of fingers are capable of receiving the Walsh index generated from the index detector and are capable of compensating the signals received via the multi-paths, respectively.

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- 10. (Previously Presented) The receiver of claim 9, wherein each of the fingers comprises:
- a despreader for despreading I and Q-component signals received via the corresponding multi-paths;
- a first transformer and a second transformer for finding Walsh correlation values of the despread I and Q-component signals;

an energy detector for finding symbol energy values of the Walsh correlation values to output to the index detector;

a phase estimator for estimating phase error values of the Walsh correlation values by generating the Walsh correlation value corresponding to the Walsh index as a phase reference signal;

a first delayer and a second delayer for delaying the despread I and Q-component signals until the corresponding phase error value is outputted from the phase estimator;

a phase rotator for compensating phase errors of the despread signals by applying the estimated phase error values to the despread signals delayed by the first delayer and the second delayer; and

a third transformer for finding the Walsh correlation values of the phase-compensated despread I-component signals.

- 11. (Previously Presented) The receiver of claim 10, wherein the phase estimator compensates the corresponding phase error by conjugate-complex-multiplying the corresponding despread signal by the corresponding detected phase error value.
- 12. (Original) The receiver of claim 10, further comprising:

 an adder adding output values of the third transformer to output; and

 a decider determining a symbol value corresponding to the I-component Walsh

 correlation value outputted from the adder.
- 13. (Previously Presented) A receiver using a coherent combining technique in a communication system using orthogonal modulation, comprising:

a plurality of fingers for despreading received signals and outputting first outputs corresponding to Walsh code energy values calculated by using a correlation value of each walsh code and the despread signals and second outputs by compensating the correlation value by performing phase estimation filtering for the correlation value according to a control signal; and

a combiner for outputting the control signal indicating the walsh code having a maximum energy value of the first outputs to each fingers and a symbol for a walsh code set by combining the second outputs.

14-22. (Canceled)